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L9: Entry 15 of 23

File: USPT

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DOCUMENT-IDENTIFIER: US 6346519 B1

TITLE: Method and composition for treating arthritis

Brief Summary Text (19):

Nitric oxide synthase inhibitors which may be employed include, but are not limited to: arginine-based analogues such as methylated arginines, substituted L-arginine, nitro-arginine, L-N.sup.G -nitroarginine, N.sup.G -mono-methyl-L-arginine (NMA), N-nitro-L-arginine methyl ester, N-amino-L-arginine, N-methyl-L-arginine, N.sup.G -monomethyl-L-arginine (L-NMA), L-N.sup.G -mono-methyl-arginine (L-NMMA); flavoprotein binders such as diphenylene iodonium and related iodonium derivatives, ornithine and ornithine derivatives such as N-imino-ethyl-L-ornithine; tetracycline; L-canavanine; citrulline; redox dyes such as methylene blue; calmodulin binders such as trifluoropiperazine and calcinarin; heme binders; zinc compounds; tetrahydropterin analogs such as aminoguanidine; and depleters of biopterin such as methotrexate.

Brief Summary Text (40):

In addition to nitric oxide synthase inhibitors and amino sugars, the following active agents may supplement the composition to promote the development and maintenance of cartilage, include but are not limited to: vitamins, A, B, C, E; minerals, selenium, silica, manganese, magnesium, copper and boron; glycosaminoglycans; analgesics, anti-inflammatory agents, methyl-sulfonyl-methane, Sadenosyl-methionine, alpha-lipoic acid, aloe vera extract, preservatives, antioxidants, stabilizers, surfactants, anti-infective agents, adjuvants, anthocyanidins, proanthocyanidins, and herbal derivatives.

CLAIMS:

3. The method of claim 1, wherein the composition optionally contains additional agents selected from the group consisting of glycosaminoglycans, vitamin A, vitamin B, vitamin E, selenium, silica, manganese, magnesium, copper, boron, analgesics, anti-inflammatory agents, methyl-sulfonyl-methane, S-adenosylmethionine, alpha-lipoic acid, aloe vera extract, antioxidants, anti-infective agents, adjuvants, anthocyanadins, proanthocyanadins, and herbal derivatives, and mixtures thereof.

6. The method of claim 1, wherein said inhibitors of nitric oxide synthase include zinc compounds, arginine derivatives, flavoprotein binders, diphenylene iodonium and derivatives thereof, ornithine and derivatives thereof, N-imino-ethyl-L-ornithine, tetracycline, L-canavanine, citrulline, redox dyes, methylene blue, calmodulin binders, trifluoropiperazine, calcinarin, heme binders, tetrahydropterin derivatives, aminoguanidine, depleters of biopterin, methotrexate, non-steroidal anti-inflammatory agents, sodium salicylate, and mixtures thereof.